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10/757,560	01/13/2004	Patrik Gustafsson	944-004.042	3025

4955	7590	06/02/2006	**EXAMINER**	
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ART UNIT	PAPER NUMBER
2152	

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/757,560	GUSTAFSSON, PATRIK
Office Action Summary	Examiner	Art Unit	
	Philip C. Lee	2152	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 March 2006*.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-34* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-34* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

1. This action is responsive to the amendment and remarks filed on March 13, 2006.

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/13/06 has been entered.

3. Claims 1-34 are presented for examination.

4. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

Claim Rejections – 35 USC 112

5. Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a. Claim language in the following claims is not clearly understood:

i.   As per claim 1, lines 11-14, it is unclear how an access request signal can

be forwarded by a terminal when the access request signal is already sent by the

terminal in lines 7-10. [i.e., are they describing the same step?].

Claim Rejections – 35 USC 103

6.   Claims 1-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kalke, U.S.

Patent Application Publication 2004/0137890 (hereinafter Kalke) in view of Martin, JR. et al,

U.S. Patent Application Publication 2003/0023849 (hereinafter Martin, JR.).

7.   Kalke and Martin, JR. were cited in the last office action.

8.   As per claims 1 and 33, Kalke taught the invention substantially as claimed by which a

terminal (10) (122, fig. 1), enabled for handling data-protocol services, is dynamically

configured for the data-protocol services specific to a service provider (page 4, paragraph 60) so

as to be able to connect said terminal (10) to an IP backbone network via a network (16) (page 4,

paragraphs 70-71), which provides said data-protocol services and which is provided by said

service provider (page 7, paragraph 114), comprising the steps of:

sending (42, 42a) an access-request signal (30, 30a) (page 5, paragraph 84) to the

network (16) by the terminal (10) for connecting to a help-portal server (24, 24a) of said network

(16) (fig. 8, page 5, paragraphs 79 and 84) and for requesting a provisioning signal (38) or a

management session signal (38a) for configuring the terminal (10) (page 4, paragraph 65); and

forwarding (52, 52a) the access-request signal (30, 30a) to the help-portal server (24, 24a)

by the terminal (10) using a well-known uniform resource locator (URL) for said help-portal

server (URL for GGSN) (page 5, paragraphs 85-86) (Note that DNS query must include URL of

the GGSN in order for the DNS to lookup corresponding IP addresses) and a trusted access point

node (20, 20a) (e.g. APN) in order to provide the provisioning signal (38) or the management

session signal (38a) to the terminal (10) (page 5, paragraphs 83-90; page 6, paragraph 106; page

9, paragraph 149), wherein said help-portal server is identified to said terminal by the network

using said chain of trust comprising consecutive exchange of information between the network

and the terminal (1051, 1056, 1058, fig. 10) (i.e., consecutive exchange between network

(SGSN, APN DNS, GGSN, WAP Gateway) and the terminal (MS)).

9.   Kalke did not specifically teach provisioning in a secure way based on a chain of trust.

Martin, JR. taught a similar invention for provisioning in a trusted (i.e. "secure") environment

based on a chain of trust (page 2, paragraphs 18-20).

10.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Kalke and Martin, JR. because Martin, JR.'s

teaching of provisioning in a trusted environment would increase the security in Kalke's system

by providing the ability to control provisioning to mobile devices to prevent unauthorized

provisioning (page 1, paragraph 3).

11.   As per claim 19, Kalke taught the invention substantially as claimed comprising:

a terminal (10) (122, fig. 1), enabled for handling data-protocol services and dynamically

configured for the data-protocol services specific to a service provider (page 4, paragraph 60),

responsive to a provisioning signal (38) or to a management session signal (38a) for configuring

the terminal (10) (page 4, paragraph 70), for providing an access-request signal (30, 30a) (page

5, paragraph 84); and

a network (16) provided by said service provider (page 7, paragraph 114), responsive to

the access-request signal (30, 30a) (page 5, paragraph 84), for providing the data-protocol

services specific to a service provider (page 4, paragraph 70), for forwarding the access-request

signal (30, 30a) to a help-portal server (24, 24a) using a well-known uniform resource locator

(URL) for said help-portal server (URL for GGSN) (page 5, paragraphs 85-86) (Note that DNS

query must include URL of the GGSN in order for the DNS to lookup corresponding IP

addresses) and a well-known access point node name (APN), for providing the provisioning

signal (38) or the management session signal (38a) to the terminal (10) to perform said

configuring (page 5, paragraphs 83-90; page 6, paragraph 106; page 9, paragraph 149) and for

enabling after said configuring a connection of said terminal (10) to an IP backbone network via

the network (16) (page 6, paragraph 108), wherein said help-portal server is identified to said

terminal by the network using said chain of trust comprising consecutive exchange of

information between the network and the terminal (1051, 1056, 1058, fig. 10) (i.e., consecutive

exchange between network (SGSN, APN DNS, GGSN, WAP Gateway) and the terminal (MS)).

12.   Kalke did not specifically teach provisioning in a secure way based on a chain of trust.

Martin, JR. taught a similar invention for provisioning in a trusted (i.e. "secure") environment

based on a chain of trust (page 2, paragraphs 18-20).

13.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Kalke and Martin, JR. because Martin, JR.'s

teaching of provisioning in a trusted environment would increase the security in Kalke's system

by providing the ability to control provisioning to mobile devices to prevent unauthorized

provisioning (page 1, paragraph 3).

14.   As per claim 34, Kalke taught the invention substantially as claimed for a terminal (122,

fig. 1), enabled for handling data-protocol services or being dynamically configured by a

network (16) for said data-protocol services specific to a service provider (page 4, paragraph 60),

comprising:

means for sending an access signal (30, 30a) to the network (16) (page 5, paragraph 84),

said access signal comprising a well-known uniform resource locator (URL) for said help-portal

server (URL for GGSN) (page 5, paragraphs 85-86) (Note that DNS query must include URL of

the GGSN in order for the DNS to lookup corresponding IP addresses); means for forwarding

said access signal (30, 30a) to a trusted access point node (20, 20a) optionally identified to the

terminal (10) by a trusted home location register (HLR) (18, 18a) (page 5, paragraph 84; page 9,

paragraph 149); means for forwarding said access signal (30, 30a) to a trusted domain name

service (DNS) server (22, 22a) identified to the terminal (10) by said trusted access point node

(20, 20a) (page 5, paragraphs 86 and 90); and means for forwarding said access signal (30, 30a) to a help-portal server (24, 24a) using an address mapping for said help-portal server (24, 24a) identified to the terminal (10) by said trusted domain name service (DNS) server (22, 22a) (page 5, paragraphs 79-80, 86, 90, 95).

15.   Kalke did not specifically teach provisioning in a secure way based on a chain of trust. Martin, JR. taught a similar invention for provisioning in a trusted (i.e. "secure") environment based on a chain of trust (page 2, paragraphs 18-20).

16.   It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Kalke and Martin, JR. because Martin, JR.'s teaching of provisioning in a trusted environment would increase the security in Kalke's system by providing the ability to control provisioning to mobile devices to prevent unauthorized provisioning (page 1, paragraph 3).

17.   As per claims 2 and 21, Kalke and Martin, JR. taught the invention substantially as claimed in claims 1 and 19 above. Kalke further taught wherein said data-protocol services specific to said service provider are provided by a general packet radio service (page 9, paragraph 149).

18.   As per claim 3, Kalke and Martin, JR. taught the invention substantially as claimed in

claim 1 above. Kalke further taught wherein the access-request signal (30, 30a) is sent by a

browser user agent block (12) of the terminal (10) (page 4, paragraphs 61-62).

19.   As per claims 4 and 20, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 1 and 19 above. Kalke further taught wherein the well-known uniform

resource locator (URL) is allowed by an access control profile of the terminal (10) (page 6,

paragraph 106).

20.   As per claim 5, Kalke and Martin, JR. taught the invention substantially as claimed in

claim 1 above. Kalke further taught comprising sending (58, 58a) the provisioning signal (38) or

the management session signal (38a) to the terminal (10) for configuring the terminal (10) (page

4, paragraph 70).

21.   As per claims 6 and 30, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 5 and 19 above. Kalke further taught wherein the provisioning signal (38) is

sent over an IP bearer or sent using a short message service (SMS) protocol (fig. 12) (i.e. WAP

gateway 1244 connected to the portal 252 as IP bearer).

22.   As per claims 7 and 31, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 6 and 30 above. Kalke further taught wherein said provisioning signal (38) is

sent over the IP bearer using a hypertext transfer protocol (HTTP) or a hypertext transfer

protocol secure (HTTPS) (page 4, paragraph 62).

23.   As per claims 8 and 32, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 6 and 30 above. Kalke further taught wherein said provisioning signal (38) is

sent over the air (OTA) (page 6, paragraph 110).

24.   As per claims 9 and 23, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 1 and 19 above. Kalke further taught comprising the steps of:

       identifying (46, 46a) to the terminal (10) the trusted access point node name by a trusted

home location register (HLR) (18, 18a) of the network (16) (page 6, paragraph 106);

       forwarding (47, 47a) the access-request signal (30, 30a) to the trusted access point node

(20, 20a) by the terminal (10) (page 5, paragraph 84; page 9, paragraph 149);

       identifying (48, 48a) to the terminal (10) a trusted domain name service server (22) of

the network (16) by the trusted access point node (20, 20a) (page 5, paragraph 84; page 9,

paragraph 149);

       forwarding (50, 50a) said access-request signal (30, 30a) by the terminal (10) to the

trusted domain name service (DNS) server (22, 22a) for identifying an address mapping for the

help-portal server (24, 24a) (page 5, paragraphs 85-86 and 90); and

       identifying (51, 51 a) said address mapping to the terminal (10) by the trusted domain

name service server (22, 22a) (page 5, paragraph 89).

25.   As per claims 10 and 24, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 9 and 23 above. Kalke further taught wherein a security of configuring the

terminal (10) is ensured by means of the chain of trust built by the trusted home location register

(18, 18a) (1132, fig. 11), by the well-known access point node name for accessing the trusted

access point node (20) (page 5, paragraph 87), by the trusted access point node (20, 20a) (page 5,

paragraph 86) (i.e. GGSN that handles the specific APN), by the trusted domain name service

server (22, 22a) (1024, fig. 10) and by the well-known uniform resource locator (page 5,

paragraphs 85-86) (Note that it is inherent that DNS query must included a URL in order for the

DNS to retrieve a list of IP addresses).

26.   As per claim 11, Kalke and Martin, JR. taught the invention substantially as claimed in

claim 1 above. Kalke further taught wherein after the step of forwarding (52, 52a) the access-

request signal (30, 30a) to the help-portal server (24, 24a), the method further comprises the

steps of: sending (52, 52a) a user authentication request signal (32a, 32b) to an authentication

block (26) of the network (16) or to the terminal (10) or to both, the authentication block (26)

and the terminal (10), respectively, by the help-portal server (24, 24a), and a receiving

authentication confirmation signal (34a or 34b) back from the authentication block (26) or from

the terminal (10), respectively, or from both, the authentication block (26) and the terminal (10)

(page 14, paragraphs 226 and 228); and

        determining if the terminal (10) is authentic by the help-portal server (24, 24a) based on

the authentication confirmation signals (34a or 34b) (page 14, paragraph 227).

27.   As per claims 12 and 25, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 11 and 23 above. Kalke further taught wherein said access-request signal (30)

contains user identification information (e.g. MSISDN), a generic uniform resource locator

(URL) request for the help-portal server (24) (page 5, paragraphs 85-86) (Note that it is inherent

that DNS query must included a URL in order for the DNS to retrieve a list of IP addresses), and

a well-known access point node (APN) name for accessing the trusted access point node (20) or

a wildcard access point node (APN) (page 5, paragraph 87).

28.   As per claims 13 and 26, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 12 and 25 above. Kalke further taught comprises the steps of:

        sending (56) a triggering signal (36) (e.g. request) to a provisioning server (28) by the

help-portal server (24) (page 4, paragraph 66; fig. 8); and (Since the wireless device access the

provisioning server 852 via portal server, thus the request must be forward to the provisioning

server by the portal server)

        sending (58) a provisioning signal (38) by the provisioning server (28) to the terminal

(10) and so configuring said terminal (10) (page 4, paragraph 70).

29.   As per claims 14 and 27, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 11 and 23 above. Kalke further taught wherein said access-request signal

(30a) contains user identification information (e.g. MSISDN), a generic uniform resource locator

(URL) request for the help-portal server (24a) (page 5, paragraphs 85-86) (Note that it is inherent

that DNS query must included a URL in order for the DNS to retrieve a list of IP addresses) and

for a device management server (28a) (e.g. PDP address), a well-known access point node name

for accessing the trusted access point node (20a) or a wildcard access point node (APN) (e.g.

APN) (page 5, paragraph 87).

30.   As per claim 28, Kalke and Martin, JR. taught the invention substantially as claimed in

claim 27 above. Kalke further taught wherein the network (16) further comprises: a device

management server (28a) (242, fig. 2), responsive to the access-request signal (30a) (PDP

Context Request) and to a further access-request signal (37) (subsequent PDP Context Request)

containing a network access authentication (i.e. responsive to PDP Context Request containing

MSISDN), for providing the management session signal (38a) to the terminal (10) for

configuring the terminal (10) (page 4, paragraphs 69-70).

31.   As per claims 15 and 29, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 14 and 28 above. Kalke and Martin, JR. further taught comprising the steps

of:

        sending an initial provisioning triggering signal (27) to a device management server (28a)

for initial provisioning (see Kalke, page 4, paragraphs 65-66); and

        sending a further triggering signal (33) by the help-portal server (24a) to an initialization

content handler (15) of the terminal (10), said further triggering signal (33) containing a proxy

address for connecting to the device management server (see Martin, JR., page 3-4, paragraphs

29-30).

32.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Kalke and Martin, JR. for the same reason set

forth in claim 1 above.

33.   Kalke and Martin, JR. did not teach containing a password in the triggering signal. It

would have been obvious to one having ordinary skill in the art at the time of the invention was

made to include a password in a triggering signal (e.g. request) in order for a terminal to access

to a server because by doing so it would avoid unauthorized terminal accessing to a sensitive

data in the server, thus increase the security of a system.

34.   As per claim 16, Kalke and Martin, JR. taught the invention substantially as claimed in

claim 15 above. Martin, JR. further taught comprising the step of: determining (64) if the further

triggering signal (33) contains an instruction of making a connection (i.e. for establishing a

provisioning session) to the device management server (28a) by the terminal (10) (page 3,

paragraph 29).

35.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Kalke and Martin, JR. because Martin, JR.'s

teaching of determining if a triggering signal contains an instruction of making a connection to

the device management server would increase the efficiency of Kalke's system by allowing a

terminal to receive provisioning directive remotely from a device management server.

36.   As per claim 17, Kalke and Martin, JR. taught the invention substantially as claimed in

claim 16 above. Martin, JR. further taught comprises the steps of:

        sending (68) a start signal (35) (i.e. forwarding the SMS provisioning message as a start

signal) to a device management agent block (17) of the terminal (10) by the initialization content

handler block (15) (page 4, paragraph 30);

        sending (70) a further access-request signal (37) containing a network access

authentication to the device development server (28a) by the device management agent block

(17) (page 4, paragraphs 30-31); and

        sending (58a) the management session signal (38a) by the device development server

(28a) to the terminal (10) for further configuring the terminal (10) (page 4, paragraph 31).

37.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Kalke and Martin, JR. because Martin, JR.'s

teaching of sending signal for further configuring the terminal would increase the efficiency of

Kalke's system by allowing a terminal to receive provisioning directive remotely from a device

management server.

38.   As per claims 18 and 22, Kalke and Martin, JR. taught the invention substantially as

claimed in claims 1 and 19 above. Kalke further taught comprises the step of: starting a browser

user agent (12) by a starting signal (31) from a user (14) (page 8, paragraph 139). (Note that

Kalke taught activate a device with user interface (i.e. browser user agent), thus it is inherent that

a user must present a starting signal to start the user interface (e.g. clicking on an interface icon).

CONCLUSION

39.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Blakley III et al, U.S. Patent 7,039,714, disclosed a method of using URL of a portal server.
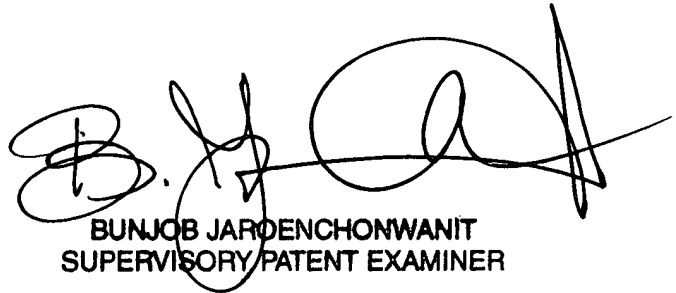
Soderbacka et al, U.S. Patent Application Publication 2003/0114158, disclosed a method of accessing a content server via an APN, a HLR and a DNS.

40.   A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C Lee whose telephone number is (571)272-3967. The examiner can normally be reached on 8 AM TO 5:30 PM Monday to Thursday and every other Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions

on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

9197 (toll-free).

P.L.

**BUNJOB JARDENCHONWANIT
SUPERVISORY PATENT EXAMINER**